

X12B SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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UPSTREAM OF X12A HUTCH

- ☐ 1. Valid Padlock Index and log, no padlocks open.
- ☐ 2. Bremsstrahlung shield (BS #1) in place and banded.
- ☐ 3. Bremsstrahlung shield (BS #2) in place and banded.
- ☐ 4. Slit tank wrapped in lead. Lead glass on Observation Port 1.
- ☐ 5. Water cooled Beryllium window #1 wrapped in lead.
- ☐ 6. Bremsstrahlung shield 3 (BS #3) intact.
- ☐ 7. Lead glass on Observation Port 2 (OP2).
- ☐ 8. Exclusion Zone (EZ #1) running between OP2 and BS4 intact and secure.
- ☐ 9. Bremsstrahlung shield (BS #4) in place and banded.

IN X12A HUTCH

- ☐ 10. Exclusion Zone (EZ #2), wall to wall black foam, in place and intact.

BETWEEN X12A AND X12C HUTCH

- ☐ 11. Exclusion Zone (EZ #3) before Monochromator intact; Bellows 3 under EZ3 wrapped in lead.
- ☐ 12. Monochromator tank wrapped in lead; Mono Observation ports 3 & 4 covered with lead glass.
- ☐ 13. White beam stop assembly wrapped in lead.
- ☐ 14. Vacuum Bellows #4 on multilayer tank wrapped in lead.
- ☐ 15. Exclusion Zone (EZ #4) and Bremsstrahlung shield (BS #5) in place and intact.
- ☐ 16. Vacuum Bellows wrapped in painted lead.
- ☐ 17. Mirror tank viewport covered with lead glass.
- ☐ 18. Vacuum Bellows wrapped in painted lead.

IN X12C HUTCH

- ☐ 19. Exclusion Zone (EZ #4) wall to wall intact (In-line bellows 7 wrapped in lead).

BETWEEN X12C AND X12B HUTCH

- ☐ 20. Exclusion Zone (EZ #5) between X12C hutch and Photon shutter intact.
- ☐ 21. Beam Observation ports 6&7 covered with lead glass.
- ☐ 22. Photon shutter lead shielding intact.
- ☐ 23. Bremsstrahlung shield (BS #6) in place and covered.

IN X12B HUTCH

- ☐ 24. Bremsstrahlung shield (BS #7) on downstream hutch wall intact and covered.

Checked by: _____ Date: _____

OPCO: _____ Date: _____